

INFORMATION DISCLOSURE STATEMENT BY APPLICANT (Not for submission under 37 CFR 1.99)	Application Number		10588369	
	Filing Date		2006-08-04	
	First Named Inventor	Uri BANIN		
	Art Unit			
	Examiner Name			
	Attorney Docket Number		BANIN4B	

U.S.PATENTS						
Examiner Initial*	Cite No	Patent Number	Kind Code ¹	Issue Date	Name of Patentee or Applicant of cited Document	Pages, Columns, Lines where Relevant Passages or Relevant Figures Appear
	1	5505928		1996-04-09	ALIVISATOS et al.	

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U.S.PATENT APPLICATION PUBLICATIONS						
Examiner Initial*	Cite No	Publication Number	Kind Code ¹	Publication Date	Name of Patentee or Applicant of cited Document	Pages, Columns, Lines where Relevant Passages or Relevant Figures Appear
	1	20020175408	A1	2002-11-28	Arun MAJUMDAR et al.	
	2	20030010987	A1	2003-01-16	Uri BANIN et al.	
	3	20040007964	A1	2004-01-15	Ga-Lane CHEN	

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	1	03054953	WO	A1	2003-07-03	The Regents of The University of California et al.		<input type="checkbox"/>

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	2	03097904	WO	A1	2003-11-27	Yissum Research Development Co. of The Hebrew Univ	<input type="checkbox"/>
	3	9106036	WO	A1	1991-05-02	Research Corporation Technologies, Inc.	<input type="checkbox"/>
	4	0229140	WO	A1	2002-04-11	The Board of Trustees of The Univ. of Arkansas	<input type="checkbox"/>
	5	02079514	WO	A1	2002-10-10	The Trustees of Boston College	<input type="checkbox"/>
	6	03091458	WO	A1	2003-11-06	The Penn State Research Foundation	<input type="checkbox"/>

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NON-PATENT LITERATURE DOCUMENTS

Examiner Initials*	Cite No	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc), date, pages(s), volume-issue number(s), publisher, city and/or country where published.	T ⁵
	1	BANIN, Uri, et al., "Tunnelling and Optical Spectroscopy of Semiconductor Nanocrystals", Annu. Rev. Phys. Chem., 2003, vol. 54, pp. 465-492.	<input type="checkbox"/>
	2	BRAUN, Erez, et al., "DNA-templated assembly and electrode attachment of a conducting silver wire", Nature, February 19, 1998, vol. 391, pp. 775-778.	<input type="checkbox"/>
	3	COUCOUVANIS, Dimitri, "The Chemistry of the Dithioacid and 1, 1-Dithiolate Complexes", Progress in Inorganic Chemistry, 1970, vol. 11, Interscience Publishers, New York, pp. 234-235.	<input type="checkbox"/>
	4	CRETIER, J.E., et al., "The Crystal Structure of the Beta Form of Gold Selenide, β -AuSe.", Mat. Res. Bull., 1973, vol. 8, pp. 1427-1430.	<input type="checkbox"/>

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5	CUI, Yi, et al., "Functional Nanoscale Electronic Devices Assembled Using Silicon Nanowire Building Blocks", Science, February 2, 2001, vol. 291, pp. 851-853.	<input type="checkbox"/>
6	DUMESTRE, F., et al., "Superlattices of Iron Nanocubes Synthesized from Fe[N(SiMe ₃) ₂] ₂ ", Science, February 6, 2004, vol. 303, pp. 821-823.	<input type="checkbox"/>
7	FAN, Chunhai, et al., "Beyond superquenching: Hyper-efficient energy transfer from conjugated polymers to gold nanoparticles", PNAS, May 27, 2003, vol. 100, no. 11, pp. 6297-6301.	<input type="checkbox"/>
8	GOLDBERGER, Joshua, et al., "Single-crystal gallium nitride nanotubes", Nature, April 10, 2003, vol. 422, pp. 599-601.	<input type="checkbox"/>
9	GOMEZ, Silvia, et al., "Gold nanoparticles from self-assembled gold(I) amine precursors", Chem. Commun., 2000, pp. 1945-1946.	<input type="checkbox"/>
10	GUDIENSEN, Mark S., et al., "Growth of nanowire superlattice structures for nanoscale photonics and electronics", Nature, February 7, 2002, vol. 415, pp. 617-620.	<input type="checkbox"/>
11	HEINZE, S., et al., "Carbon Nanotubes as Schottky Barrier Transistors", Physical Review Letters, September 2, 2002, vol. 89, no. 10, pp. 106801.1-106801.4.	<input type="checkbox"/>
12	JAVEY, Ali, et al., "Ballistic carbon nanotube field-effect transistors", Nature, August 7, 2003, vol. 424, pp. 654-657.	<input type="checkbox"/>
13	JIN, R., et al., "Photoinduced Conversion of Silver Nanospheres to Nanoprisms", Science, November 30, 2001, vol. 294, pp. 1901-1903.	<input type="checkbox"/>
14	JONES, R.M., et al., "Building highly sensitive dye assemblies for biosensing from molecular building blocks", PNAS, December 18, 2001, vol. 98, no.26, pp. 14769-14772.	<input type="checkbox"/>
15	KAN, S., et al., "Synthesis and size-dependent properties of zinc-blende semiconductor quantum rods", Nature Materials, March 2003, vol. 2, pp. 155-158.	<input type="checkbox"/>

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16	KEREN, K., et al., "DNA-Templated Carbon Nanotube Field-Effect Transistor", Science, November 21, 2003, Vol. 302, pp. 1380-1382.	<input type="checkbox"/>
17	KLEIN, D, et al., "A single-electron transistor made from a cadmium selenide nanocrystal", Nature, October 16, 1997, vol. 389, pp. 699-701.	<input type="checkbox"/>
18	MANNA, L., et al., "Controlled growth of tetrapod-branched inorganic nanocrystals", Nature Materials, June 2003, vol. 2, pp. 382-385.	<input type="checkbox"/>
19	MANNA, L., et al., "Synthesis of Soluble and Processible Rod-, Arrow-, Teardrop-, and Tetrapod-Shaped CdSe Nanocrystals", J. Am. Chem. Soc., 2000, vol. 122, pp. 12700-12706.	<input type="checkbox"/>
20	MOKARI, T., et al., "Synthesis and Properties of CdSe/ZnS Core/Shell Nanorods", Chem. Mater., 2003, vol. 15, pp. 3955-3960.	<input type="checkbox"/>
21	MURRAY, C.B., et al., "Synthesis and Characterization of Nearly Monodisperse CdE (E=S, Se, Te) Semiconductor Nanocrystallites", J. Am. Chem. Soc., 1993, vol. 115, pp. 8706-8715.	<input type="checkbox"/>
22	NAHUM, E., et al., "Transport and Charging in Single Semiconductor Nanocrystals Studied by Conductance Atomic Force Microscopy", Nano Letters, 2004, vol. 4, no. 1, pp. 103-108.	<input type="checkbox"/>
23	PENG, X. et al., "Shape control of CdSe nanocrystals", Nature, March 2000, vol. 404, pp. 59-61.	<input type="checkbox"/>
24	PENG, Z, et al., "Mechanisms of the Shape Evolution of CdSe Nanocrystals", J. Am. Chem. Soc., 2001, vol. 123, pp. 1389-1395.	<input type="checkbox"/>
25	TALAPIN, D. et al., "Highly Emissive Colloidal CdSe/CdS Heterostructures of Mixed Dimensionality", Nano Letters, 2003, vol. 3, no. 12, pp. 1677-1681	<input type="checkbox"/>
26	TANG, Z. et al., "Spontaneous Organization of Single CdTe Nanoparticles into Luminescent nanowires", Science, July 12, 2002, vol. 297, pp. 237-240.	<input type="checkbox"/>

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27	WU, Y. et al., "Block-by-Block Growth of Single-Crystalline Si/SiGe Superlattice Nanowires", Nano Letters, 2002, vol. 2, no. 2, pp. 83-86.	<input type="checkbox"/>
28	YAMAMOTO, M. et al., "Novel preparation of monodispersed silver nanoparticles via amine adducts derived from insoluble silver myristate in tertiary alkylamine", J. Mater. Chem., 2003, vol. 13, pp. 2064-2065.	<input type="checkbox"/>
29	YAN, H. et al., "DNA-Templated Self-Assembly of Protein Arrays and Highly Conductive Nanowires", Science, September 26, 2003, vol. 301, pp. 1882-1884.	<input type="checkbox"/>
30	YU, W. et al., "Formation and Stability of Size-, Shape-, and Structure-Controlled CdTe Nanocrystals: Ligand Effects on Monomers and Nanocrystals", Chem. Mater., 2003, vol. 15, pp. 4300-4308.	<input type="checkbox"/>
31	Alfredo M. MORALES et al., "A LASER ABLATION METHOD FOR THE SYNTHESIS OF CRYSTALLINE SEMICONDUCTOR NANOWIRE", Science, Vol. 279, January 9, 1998, pages 208-211	<input type="checkbox"/>
32	Wendy U. HUYNH et al., "HYBRID NANOROD-POLYMER SOLAR CELLS", Reports, Science, Vol. 295, March 29, 2002, pages 2425-2427	<input type="checkbox"/>
33	MIRI KAZES et al., "LASING FROM SEMICONDUCTOR QUANTUM RODS IN A CYLINDRICAL MICROCAVITY", aDV. mATER. 2002, Vol. 14, No. 4 pages 317-321	<input type="checkbox"/>
34	GUANGTAO LI et al., "Spherical and Planar Gold(0) Nanoparticles with a Rigid Gold(I)-Anion or a Fluid Gold(0)-Acetone Surface", 2003 American Chemical Society, Vol .19 pages 6483-6491	<input type="checkbox"/>
35	R. KRUPKE et al., "Contacting single bundles of carbon nanotubes with altering electric fields", Applied Physics A, Materials Science & Processing, October 28, 2002, pages 397-400	<input type="checkbox"/>
36	MICHAL JACOBSON et al., "SIZE DEPENDENCE OF SECOND HARMONIC GENERATION IN CDSE NANOCRYSTAL QUANTUM DOTS", Depart. of Physical Chemistry and the Farkas Center for Light-Induced Processes, The Hebrew University of Jerusalem, Vol. 104, No. 1, January 13, 2000	<input type="checkbox"/>
37	W. RECHBERGER et al., "OPTICAL PROPERTIES OF TWO INTERACTING GOLD NANOPARTICLES", Optics Communications, Vol. 220, 2003, pages 137-141	<input type="checkbox"/>

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	38	C. SONNICHSEN et al., "DRASTIC REDUCTION OF PLASMON DAMPING IN GOLD NANORODS", Photonics and Optoelectronics Group, Physics Depart. and CeNSVol. 88, No. 7, February 18, 2002, pages 1-4	<input type="checkbox"/>
	39	R. SOLANKI et al., "Atomic Layer deposition of ZnSe/CdSe superlattice Nanowires", Applied Physics Letters, Vol. 81, No. 20, November 11, 2002, pages 3864-3866	<input type="checkbox"/>
	40	TALEB MOKARI et al., "Selective Growth of Metal Tips onto Semiconductor Quantum Rods and Tetrapods", Reports, Vol. 304, June 18, 2004, pages 17871790	<input type="checkbox"/>
	41	YOUNG-WOOK JUN et al., "Controlled Synthesis of Multi-armed CdS Nanorod Architectures Using Monosurfactant System", J. Am. Chem. Soc. 2001, Vol. 123, pages 5150-5151	<input type="checkbox"/>

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EXAMINER SIGNATURE

Examiner Signature		Date Considered	
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CERTIFICATION STATEMENT

Please see 37 CFR 1.97 and 1.98 to make the appropriate selection(s):

☐ That each item of information contained in the information disclosure statement was first cited in any communication from a foreign patent office in a counterpart foreign application not more than three months prior to the filing of the information disclosure statement. See 37 CFR 1.97(e)(1).

OR

☐ That no item of information contained in the information disclosure statement was cited in a communication from a foreign patent office in a counterpart foreign application, and, to the knowledge of the person signing the certification after making reasonable inquiry, no item of information contained in the information disclosure statement was known to any individual designated in 37 CFR 1.56(c) more than three months prior to the filing of the information disclosure statement. See 37 CFR 1.97(e)(2).

- ☐ See attached certification statement.
- ☐ Fee set forth in 37 CFR 1.17 (p) has been submitted herewith.
- ☒ None

SIGNATURE

A signature of the applicant or representative is required in accordance with CFR 1.33, 10.18. Please see CFR 1.4(d) for the form of the signature.

Signature	/SN/	Date (YYYY-MM-DD)	2007-08-16
Name/Print	Sheridan Neimark	Registration Number	20520

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